

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.
10274-1-1SERIAL NO.
07/317,107LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
STATEMENT

APPLICANT

Thomas G. Zimmerman

(Use several sheets if necessary)

FILING DATE
2/28/89GROUP
266

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
AAO	AA	4,074,444	02/21/88	Laenger, Charles J.		
ABO	AB	4,715,235	12/29/87	Fukui et al.		
II	AC	4,665,388	05/12/87	Ivie et al.		
II	AD	4,660,033	04/21/87	Brandt, Gordon		
II	AE	4,654,520	03/31/87	Griffiths, Richard		
II	AF	4,586,335	05/06/86	Hosoda et al.		
II	AG	4,634,856	01/06/87	Kirkham, Randy		
II	AH	4,613,139	09/23/86	Robinson, II, William		
II	AI	4,586,387	05/06/86	Morgan et al.		
II	AJ	4,581,491	04/08/86	Boothroyd, Arthur		
II	AK	4,579,006	04/01/86	Hosoda, Yuji		
II	AL	4,558,704	12/17/85	Petrofsky, Jerrold		
II	AM	4,553,393	11/19/85	Ruoff, Carl F.		
II	AN	4,544,988	10/01/85	Hochstein, Peter		
II	AO	4,542,291	09/17/85	Zimmerman, Thomas		
ABO	AP	4,540,176	09/10/85	Baer, Ralph		
II	AQ	4,524,340	06/18/85	Lefkowitz, Leonard R.		

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
SUX ABO	AR	SU 1,225,525	04/23/86	Russia		
DEX ABO	AS	DE 3334395	04/11/85	Germany		
DEX ABO		DE 3,442,549	11/22/84	Germany		

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

- ~~AB~~ AT "One-Point Touch Input of Vector Information for Computer Displays"
C. Herot and G. Weinzapfel, Computer Graphics, Vol. 12, No. 3, August 1978.
- ~~ABO~~ AU "Digital Actuator Utilizing Shape Memory Effect", Honma, et al.
lecture given at 30th Anniversary of TOKAI Branch foundation on Jul 14, 1981.

EXAMINER

ALVIN OBERLEY
DATE RECD

DATE CONSIDERED

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ABD	BA 4,414,984	11/15/83	Zarudiansky, Alain			
	BB 4,414,537	11/08/83	Grimes, Gary			
ABD	BC 4,408,495	10/11/83	Robert Couch, et al.			
	BD 4,355,805	10/26/82	Baer, et al.			
ABD	BE 4,302,138	11/24/81	Zarudiansky, Alain			
	BF 4,209,255	06/24/80	Heynau, Hans A.			
ABD	BG 4,059,830	11/22/77	Threadgill, Murray			
ABD	BH 3,777,086	12/04/73	Riedo, Otto			
	BI 3,510,210	05/05/70	Haney, Von			
ABD	BJ 2,356,267	08/22/44	Pelunis, R.J.			
ABD	BK 1,335,272	03/30/20	Broughton, Douglas J.			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
BL					
BM					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

ABD BN "Micro Manipulators Applied Shape Memory Effect", Honma et al., pape presented at 1982 Precision Machinery Assoc. Autumn Conference o October 20. (Also in Japanese)

ABD BO "Magnetoelastic Force Feedback Sensors for Robots and Machine Tools" John M. Vranish, National Bureau of Standards, Code 738.03.

ABD BP "Analysis of Muscle Open and Closed Loop Recruitment Forces: Preview to Synthetic Proprioception", Solomonow, et al., IEEE Frontier of Engineering and Computing in Health Care, 1984.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
CA						
CB						
CC						
CD						

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
CE					
CF					
CG					

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

APD CH "Shape Memory Effect Alloys for Robotic Devices", Schetky, L.
Robotics Age, July, 1984, pp. 13-17.
APD CJ "Laboratory Profile", R & D Frontiers
APD CK "Hitachi's Robot Hand", Robotics Age, July, 1984

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